Listing of Claims

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1	90. (new) A method for remediating drilled cuttings containing oil and water
2	from a wellbore, the method comprising
3	introducing drilled cuttings with oil and water to a system for
4	remediation, the system including a thermal treatment system and a condensing
5	system,
6	feeding a slurry of the cuttings with oil and water to the thermal
7	treatment system and heating the drilled cuttings and oil and water therein
8	producing heated cuttings and a stream with oil and water and solids therein,
9	discharging the heated cuttings from the thermal treatment
10	system,
11	feeding the stream with oil and water and solids therein to a dual
12	component mechanical separation system producing a discharge stream with
13	separated-out solids and a vapor with oil and water therein, the dual component
14	mechanical separation system including centrifuge apparatus which receives
15	and treats the stream with oil and water, the centrifuge apparatus producing a
16	centrifuge stream with solids therein, the dual component mechanical
17	separation apparatus including cyclonic apparatus which receives and treats the
18	centrifuge stream producing a cyclone stream to further separate the solids,
19	feeding the vapor to a condenser system producing a liquid stream,
20	feeding the liquid stream to an oil/water separator apparatus
21	producing an oil stream and a water stream,
22	wherein a cooling apparatus provides cooling fluid for cooling the
23	condenser to enhance effectiveness of the condenser, the method further
24	comprising
25	cooling the condenser with cooling fluid from the cooling
26	apparatus, and
27	recycling the cyclone stream back to the centrifuge apparatus.

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quenching the vapor with oil and water therein in a quench system

91. (new) The method of claim 90 further comprising

3	prior to feeding said vapor to the condenser system.
1	92. (new) The method of claim 91 wherein the quench system is operated so
2	that its heat content remains substantially constant.
1	93. (new) The method of claim 91 further comprising
2	pumping uncondensed quenched vapor to the condenser system.
1	94. (new) The method of claim 90 further comprising
2	recirculating vapor through the dual component mechanical
3	separator system to enhance efficiency of solids separation by the dual
4	component mechanical separator system.
1	95. (new) The method of claim 90 wherein the dual component mechanical
2	separator system is insulated to reduce condensation of material within the dual
3	component mechanical separator system.
1	96. (new) The method of claim 90 further comprising
2	centrifuging the oil stream from the oil/water separator apparatus
3	to clean oil in said oil stream.
1	97. (new) The method of claim 90 wherein an initial mixture of wellbore
2	cuttings, oil, water and drilling fluid is fed to a shaker system, the method further
3	comprising
4	producing the slurry of drilled cuttings with oil and water with the
5	shaker system.
1	98. (new) The method of claim 90 further comprising, prior to feeding the
2	slurry to the thermal treatment system,
3	feeding the slurry through a secondary separator system to a
4	hopper,
5	separating large pieces of material from the slurry with the
6	secondary separator system, and then
7	feeding the slurry from the hopper to the thermal treatment
8	system.
1	99. (new) The method of claim 90 wherein the slurry includes fine particulates
2	and the dual component mechanical separator system is for removing fine particulates,
3	the method further comprising prior to feeding the stream with oil and water to the

4	condenser system,	
5	separating out with the dual component mechanical separator	
6	system fine particulates from the stream with oil and water.	
1	100. (new) The method of claim 90 wherein the slurry has hydrocarbon	
2	contaminants therein and the method further comprising	
3	volatilizing the hydrocarbons contaminants in the thermal treatment	
4	system to separate them from the slurry.	
1	101. (new) The method of claim 90 wherein the slurry has volatilizable	
2	contaminants therein and the method further comprising	
3	volatilizing the volatilizable contaminants in the thermal treatment	
4	system to separate them from the slurry.	
1	102. (new) The method of claim 90 wherein the system includes heat	
2	exchange apparatus and the method further comprising	
3	cooling the liquid stream prior to feeding it to the oil/water	
4	separator.	
1	103. (new) The method of claim 90 further comprising	
2	feeding the oil stream from the oil/water separator to the thermal	
3	treatment system for fuel for the thermal treatment system.	
1	104. (new) The method of claim 90 wherein the system includes rehydration	
2	apparatus and the method further comprising	
3	rehydrating the discharged heated cuttings from the thermal	
4	treatment system with the rehydration apparatus to facilitate handling of the	
5	heated cuttings.	
1	105. (new) The method of claim 90 wherein the system includes scrubber	
2	apparatus for cleaning heated cuttings exhausted from the thermal treatment system,	
3	the method further comprising	
4	scrubbing said heated cuttings with the scrubber apparatus.	
1	106. (new) The method of claim 90 wherein the system includes scrubber	
2	apparatus for cleaning solids exhausted from the dual component mechanical	
3	separator, the method further comprising	
4	scrubbing said solids with the scrubber apparatus.	

1	107. (new) The method of claim 90 further comprising
2	feeding the heated cuttings from the thermal treatment system to
3	mill apparatus for hydration.
1	108. (new) The method of claim 90 further comprising
2	feeding the separated-out solids from the dual component
3	mechanical separator to mill apparatus for hydration.
1	109. (new) A method for remediating drilled cuttings containing oil and water
2	from a wellbore, the method comprising
3	introducing drilled cuttings with oil and water to a system for
4	remediation, the system including a thermal treatment system and a condensing
5	system,
6	feeding a slurry of the cuttings with oil and water to the thermal
7	treatment system and heating the drilled cuttings and oil and water therein
8	producing heated cuttings and a stream with oil and water and solids therein,
9	discharging the heated cuttings from the thermal treatment
10	system,
11	feeding the stream with oil and water and solids therein to a dual
12	component mechanical separation system producing a discharge stream with
13	separated-out solids and a vapor with oil and water therein, the dual component
14	mechanical separation system including centrifuge apparatus which receives
15	and treats the stream with oil and water, the centrifuge apparatus producing a
16	centrifuge stream with solids therein, the dual component mechanical
17	separation apparatus including cyclonic apparatus which receives and treats the
18	centrifuge stream producing a cyclone stream to further separate the solids,
19	feeding the vapor to a condenser system producing a liquid stream,
20	feeding the liquid stream to an oil/water separator apparatus
21	producing an oil stream and a water stream,
22	producing noncondensables with the condenser,
23	oxidizing the noncondensables, and
24	recycling the cyclone stream back to the centrifuge apparatus.
1	110. (new) The method of claim 109 wherein the noncondensables are

oxidized in a thermal oxidizer.

111. (new) A method for remediating drilled cuttings containing oil and water from a wellbore, the method comprising

introducing drilled cuttings with oil and water to a system for remediation, the system including a thermal treatment system and a condensing system,

feeding a slurry of the cuttings with oil and water to the thermal treatment system and heating the drilled cuttings and oil and water therein producing heated cuttings and a stream with oil and water and solids therein, discharging the heated cuttings from the thermal treatment

system,

feeding the stream with oil and water and solids therein to a dual component mechanical separation system producing separated-out solids and a vapor with oil and water therein, and wherein the dual component mechanical separation system includes centrifuge apparatus which receives and treats the stream with oil and water, the centrifuge apparatus producing a centrifuge stream with solids therein, the dual component mechanical separation apparatus including cyclonic apparatus which receives and treats the centrifuge stream producing a cyclone stream to further separate the solids,

feeding the vapor to a condenser system producing a liquid stream, feeding the liquid stream to an oil/water separator apparatus producing an oil stream and a water stream,

wherein the thermal treatment system comprises a vessel with an interior wall dividing the vessel into two intercommunicating chambers, the vessel having two spaced-apart ends and a burner at each end for heating the drilled cuttings in each chamber, and

recycling the cyclone stream back to the centrifuge apparatus.

- 112. (new) The method of claim 111 wherein each burner is in a separate firebox adjacent each chamber.
- 113. (new) The method of claim 111 wherein each burner is mounted within the vessel.